

ECS 152A: Computer Networks Project 2

iPerf Implementation
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1 File Submissions

1. `proj2-client.py`
2. `proj2-server.py`
3. `proj2-client-ChatGPT.py`
4. `proj2-server-ChatGPT.py`

2 Throughput Report

Computed Throughput: 16706.38 kB/sec (our first run)

The throughput fluctuates with each run. Even on our local host, there is probably a lot of variance in end-to-end delay for each session.

Computed Throughput after ChatGPT: 50087.22 KB/s

3 References

[Chat GPT-3.5 Session Link Server and Client Code](#)

OpenAI. (2023). ChatGPT [Large language model]. <https://chat.openai.com>

We modified Mohammad's `udp-client.py` and `udp-server.py` scripts for the activity. In determining throughput and sending 100 kB of data, we made use of the `sys` and `time` python libraries. `sys` allows us to use a method which measures the size of a passed-in variable. We are assuming that since the data-type we passed in is byte, it gives us a clear byte measurement (which we can use to make sure it meets our 100 kB specification). `time` is a nifty Python library which allows us to capture a timeframe of a script's runtime, between two `time()` calls. This gives us a measurement (in seconds) for the runtime of the transmission.